

# NOvA AEM Update

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# Outline

- Production Test Stand
- Far detector construction and outfitting update
- Near detector cavern excavation progress

# APD Test Stand

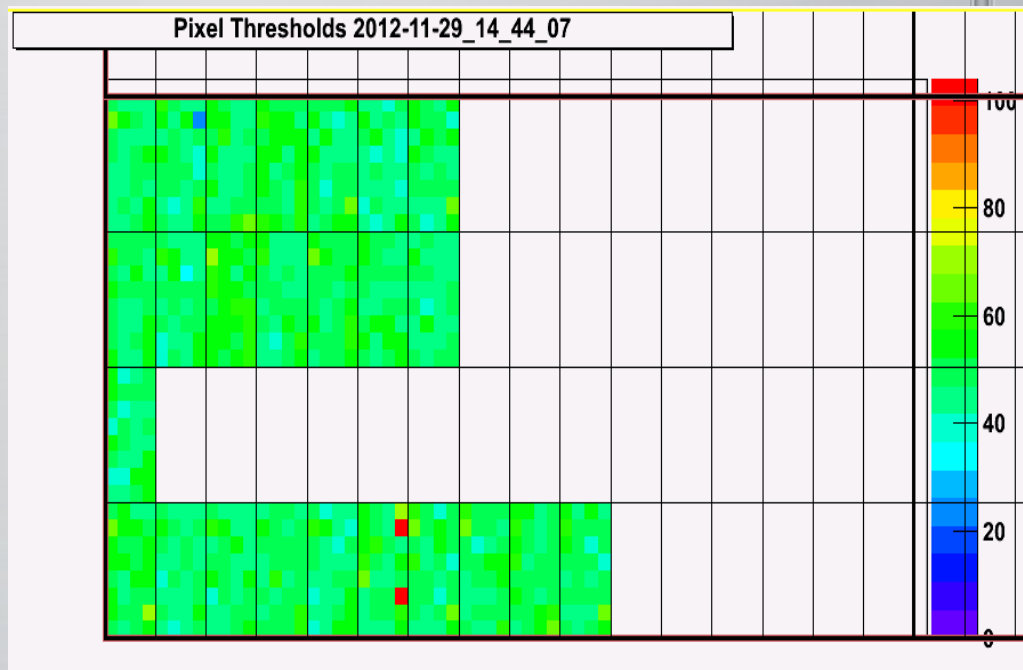
- Built a 30 “snout” test stand to test the final production parts.
  - APD dark currents
  - Water temperature in new serial cooling scheme
- Installed 25 APD prior to Thanksgiving





# APD TS Results

- All 25 APDs were cooled and read out with a standalone instance of the full NOvA DAQ
- “Digital Oscilloscope” data was data every 4-6 hours after installation
- Thresholds made using extrapolations to 100Hz show 798/800 channel are in working condition.
- 30 more APD expected next week, we'll cycle at least 100 through the teststand
- 2.5C water temperature rise.



# Far Detector Constuction

- 4 empty blocks in place
- Filling to begin soon (waiting for safety review signoffs)
- Outfitting under way
  - DCMs, PDB, cable trays, etc going into place

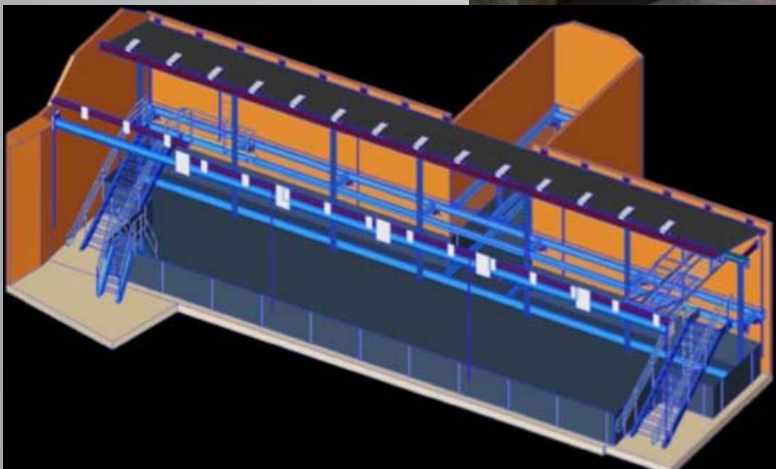




# ND cavern excavation

COMPLETE!

Hall outfitting can begin and is scheduled to complete by May 2013.



# Conclusion and Next Steps

- Production test stand is operating in the NDSB and initial results show good APD performance
- Far detector construction continues (4 blocks complete)
- Outfitting underway, filling operations to begin soon
- Near detector excavation complete.
- THANKS!